

OICE

RECEIVED  
FEB 06 2002

TECH CENTER 1600/2800

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/875,076DATE: 12/19/2001  
TIME: 12:59:06Input Set : N:\Crf3\RULE60\09875076.RAW.txt  
Output Set: N:\CRF3\12192001\I875076.raw

1 <110> APPLICANT: Chen, Ruoping  
2 Dang, Huong T.  
3 Liaw, Chen W.  
4 Lin, I-Lin  
5 <120> TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors  
6 <130> FILE REFERENCE: AREN0050  
7 <140> CURRENT APPLICATION NUMBER: 09/875,076  
8 <141> CURRENT FILING DATE: 2001-06-06  
9 <150> PRIOR APPLICATION NUMBER: 09/417,044  
10 <151> PRIOR FILING DATE: 1999-10-12  
11 <150> PRIOR APPLICATION NUMBER: 60/120,416  
12 <151> PRIOR FILING DATE: 1999-02-16  
13 <150> PRIOR APPLICATION NUMBER: 60/121,851  
14 <151> PRIOR FILING DATE: 1999-02-26  
15 <150> PRIOR APPLICATION NUMBER: 60/123,946  
16 <151> PRIOR FILING DATE: 1999-03-12  
17 <150> PRIOR APPLICATION NUMBER: 60/123,949  
18 <151> PRIOR FILING DATE: 1999-03-12  
19 <150> PRIOR APPLICATION NUMBER: 60/136,436  
20 <151> PRIOR FILING DATE: 1999-05-28  
21 <150> PRIOR APPLICATION NUMBER: 60/136,437  
22 <151> PRIOR FILING DATE: 1999-05-28  
23 <150> PRIOR APPLICATION NUMBER: 60/136,439  
24 <151> PRIOR FILING DATE: 1999-05-28  
25 <150> PRIOR APPLICATION NUMBER: 60/136,567  
26 <151> PRIOR FILING DATE: 1999-05-28  
27 <150> PRIOR APPLICATION NUMBER: 60/137,127  
28 <151> PRIOR FILING DATE: 1999-05-28  
29 <150> PRIOR APPLICATION NUMBER: 60/137,131  
30 <151> PRIOR FILING DATE: 1999-05-28  
31 <150> PRIOR APPLICATION NUMBER: 60/141,448  
32 <151> PRIOR FILING DATE: 1999-06-29  
33 <150> PRIOR APPLICATION NUMBER: 60/156,653  
34 <151> PRIOR FILING DATE: 1999-09-29  
35 <150> PRIOR APPLICATION NUMBER: 60/156,633  
36 <151> PRIOR FILING DATE: 1999-09-29  
37 <150> PRIOR APPLICATION NUMBER: 60/156,555  
38 <151> PRIOR FILING DATE: 1999-09-29  
39 <150> PRIOR APPLICATION NUMBER: 60/156,634  
40 <151> PRIOR FILING DATE: 1999-09-29  
41 <150> PRIOR APPLICATION NUMBER: 60/157,280  
42 <151> PRIOR FILING DATE: 1999-10-01  
43 <150> PRIOR APPLICATION NUMBER: 60/157,294  
44 <151> PRIOR FILING DATE: 1999-10-01  
45 <150> PRIOR APPLICATION NUMBER: 60/157,281  
46 <151> PRIOR FILING DATE: 1999-10-01  
47 <150> PRIOR APPLICATION NUMBER: 60/157,293

ENTERED

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/875,076

DATE: 12/19/2001

TIME: 12:59:06

Input Set : N:\Crf3\RULE60\09875076.RAW.txt

Output Set: N:\CRF3\12192001\I875076.raw

```

48 <151> PRIOR FILING DATE: 1999-10-01
49 <150> PRIOR APPLICATION NUMBER: 60/157,282
50 <151> PRIOR FILING DATE: 1999-10-01
51 <160> NUMBER OF SEQ ID NOS: 74
52 <170> SOFTWARE: PatentIn Ver. 2.1
54 <210> SEQ ID NO: 1
55 <211> LENGTH: 1260
56 <212> TYPE: DNA
57 <213> ORGANISM: Homo sapiens
58 <400> SEQUENCE: 1
59   atggtcttct cggcagtgtt gactgcgttc cataccggga catccaacac aacatttgtc 60
60   gtgtatgaaa acacctacat gaattattaca ctccctccac cattccagca tcttgacctc 120
61   agtccattgc ttatatatag ttttgaaacc atggctccca ctggtttgag ttccctgacc 180
62   gtgaatagta cagctgtgcc cacaacacca gcagcattta agagcctaaa ctgacctctt 240
63   cagatcaccc ttctgctat aatgatattc attctgtttg tgtcttttct tgggaacttg 300
64   gttgtttgcc tcatgtttta ccaaaaagct gccatgaggt ctgcaattaa catcctcctt 360
65   gccagcctag cttttgcaga catgttgctt gcagtgtga acatgccctt tgccctggta 420
66   actattotta ctaccgatg gatttttggg aaattcttct gtagggtatc tgctatgttt 480
67   ttctggttat ttgtgataga aggagtagcc atcctgctca tcattagcat agataggttc 540
68   cttattatag tccagaggca ggataagcta aaccatata gagctaaggt tctgattgca 600
69   gtttcttggg caacttcctt ttgtgtagct ttctcttag ccgtaggaaa ccccgacctg 660
70   cagatacctt cccgagctcc ccagtgtgtg tttgggtaca caaccaatcc aggctaccag 720
71   gcttatgtga ttttgatttc tctcatttct ttcttcatac ccttctggt aatactgtac 780
72   tcatttatgg gcatactcaa cacccttcgg cacaatgcct tgaggatcca tagctaccct 840
73   gaaggtatat gccctcagca ggcagcaaaa ctgggtctca tgagtctgca gagaccttct 900
74   cagatgagca ttgacatggg ctttaaaaca cgtgccttca ccactatttt gattctcttt 960
75   gctgtcttca ttgtctgtg ggccccattc accacttaca gccttgtggc aacattcagt 1020
76   aagcactttt actatcagca caactttttt gagattagca cctggctact gtggctctgc 1080
77   tacctcaagt ctgcattgaa tccgtgtatc tactactgga ggattaagaa attccatgat 1140
78   gcttgctctg acatgatgcc taagtccttc aagtttttgc cgcagctccc tggtcacaca 1200
79   aagcgacgga tacgtcctag tgctgtctat gtgtgtgggg aacatcggac ggtggtgtga 1260
81 <210> SEQ ID NO: 2
82 <211> LENGTH: 419
83 <212> TYPE: PRT
84 <213> ORGANISM: Homo sapiens
85 <400> SEQUENCE: 2
86   Met Val Phe Ser Ala Val Leu Thr Ala Phe His Thr Gly Thr Ser Asn
87       1           5           10           15
88   Thr Thr Phe Val Val Tyr Glu Asn Thr Tyr Met Asn Ile Thr Leu Pro
89           20           25           30
90   Pro Pro Phe Gln His Pro Asp Leu Ser Pro Leu Leu Arg Tyr Ser Phe
91           35           40           45
92   Glu Thr Met Ala Pro Thr Gly Leu Ser Ser Leu Thr Val Asn Ser Thr
93           50           55           60
94   Ala Val Pro Thr Thr Pro Ala Ala Phe Lys Ser Leu Asn Leu Pro Leu
95           65           70           75           80
96   Gln Ile Thr Leu Ser Ala Ile Met Ile Phe Ile Leu Phe Val Ser Phe
97           85           90           95
98   Leu Gly Asn Leu Val Val Cys Leu Met Val Tyr Gln Lys Ala Ala Met

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/875,076

DATE: 12/19/2001

TIME: 12:59:06

Input Set : N:\Crf3\RULE60\09875076.RAW.txt

Output Set: N:\CRF3\12192001\I875076.raw

```

99          100          105          110
100  Arg Ser Ala Ile Asn Ile Leu Leu Ala Ser Leu Ala Phe Ala Asp Met
101          115          120          125
102  Leu Leu Ala Val Leu Asn Met Pro Phe Ala Leu Val Thr Ile Leu Thr
103          130          135          140
104  Thr Arg Trp Ile Phe Gly Lys Phe Phe Cys Arg Val Ser Ala Met Phe
105          145          150          155          160
106  Phe Trp Leu Phe Val Ile Glu Gly Val Ala Ile Leu Leu Ile Ile Ser
107          165          170          175
108  Ile Asp Arg Phe Leu Ile Ile Val Gln Arg Gln Asp Lys Leu Asn Pro
109          180          185          190
110  Tyr Arg Ala Lys Val Leu Ile Ala Val Ser Trp Ala Thr Ser Phe Cys
111          195          200          205
112  Val Ala Phe Pro Leu Ala Val Gly Asn Pro Asp Leu Gln Ile Pro Ser
113          210          215          220
114  Arg Ala Pro Gln Cys Val Phe Gly Tyr Thr Thr Asn Pro Gly Tyr Gln
115          225          230          235          240
116  Ala Tyr Val Ile Leu Ile Ser Leu Ile Ser Phe Phe Ile Pro Phe Leu
117          245          250          255
118  Val Ile Leu Tyr Ser Phe Met Gly Ile Leu Asn Thr Leu Arg His Asn
119          260          265          270
120  Ala Leu Arg Ile His Ser Tyr Pro Glu Gly Ile Cys Leu Ser Gln Ala
121          275          280          285
122  Ser Lys Leu Gly Leu Met Ser Leu Gln Arg Pro Phe Gln Met Ser Ile
123          290          295          300
124  Asp Met Gly Phe Lys Thr Arg Ala Phe Thr Thr Ile Leu Ile Leu Phe
125          305          310          315          320
126  Ala Val Phe Ile Val Cys Trp Ala Pro Phe Thr Thr Tyr Ser Leu Val
127          325          330          335
128  Ala Thr Phe Ser Lys His Phe Tyr Tyr Gln His Asn Phe Phe Glu Ile
129          340          345          350
130  Ser Thr Trp Leu Leu Trp Leu Cys Tyr Leu Lys Ser Ala Leu Asn Pro
131          355          360          365
132  Leu Ile Tyr Tyr Trp Arg Ile Lys Lys Phe His Asp Ala Cys Leu Asp
133          370          375          380
134  Met Met Pro Lys Ser Phe Lys Phe Leu Pro Gln Leu Pro Gly His Thr
135          385          390          395          400
136  Lys Arg Arg Ile Arg Pro Ser Ala Val Tyr Val Cys Gly Glu His Arg
137          405          410          415
138  Thr Val Val
140 <210> SEQ ID NO: 3
141 <211> LENGTH: 1119
142 <212> TYPE: DNA
143 <213> ORGANISM: Homo sapiens
144 <400> SEQUENCE: 3
145  atgttagcca acagctcctc aaccaacagt tctgttctcc cgtgtcctga ctaccgacct 60
146  acccaccgcc tgcacttggg ggtctacagc ttggtgctgg ctgccgggct cccctcaac 120
147  gcgctagccc tctgggtctt cctgcgcgcg ctgcgcgtgc actcggtggt gagegtgtac 180
148  atgtgtaacc tggcgccag cgacctgtc ttcacctct cgtgccegt tegtctctcc 240

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/875,076

DATE: 12/19/2001

TIME: 12:59:06

Input Set : N:\Crf3\RULE60\09875076.RAW.txt

Output Set: N:\CRF3\12192001\I875076.raw

```

149      tactacgcac  tgcaccactg  gcccttcccc  gacctcctgt  gccagacgac  gggcgccatc  300
150      ttccagatga  acatgtacgg  cagctgcatc  ttcttgatgc  tcacaaacgt  ggaccgctac  360
151      gccgccatcg  tgcaccogct  gcgactgggc  cacctgcggc  ggcccccgct  ggcgcggctg  420
152      ctctgcctgg  gcgtgtgggc  gctcatcctg  gtgtttgccg  tgcccccgcc  ccgcgtgcac  480
153      aggcctctgc  gttgcgcgta  ccgggacctc  gaggtgcgcc  tatgcttcga  gagcttcagc  540
154      gacgagctgt  ggaaggcag  gctgctgccc  ctgctgctgc  tggccgaggg  gctgggcttc  600
155      ctgctgcccc  tggcgcggt  ggtctactcg  tcgggcccag  tctcttgac  gctggcgccg  660
156      cccgacgcca  cgcagagcca  gcggcgccgg  aagaccgtgc  gccctctgct  ggctaacctc  720
157      gtcattcttc  tctgtgtctt  cgtgccctac  aacagcacgc  tggcggtcta  cgggctgctg  780
158      cggagcaagc  tgggtggcgg  cagcgtgcct  gcccgcgatc  gcgtgcgcgg  ggtgctgatg  840
159      gtgatggtag  tctgtgcggg  cgccaaactg  gtgctggacc  cgctgggtga  ctactttagc  900
160      gccgagggct  tccgcaacac  cctgcgcggc  ctgggcactc  cgcaccgggc  caggacctcg  960
161      gccaccaacg  ggacgcgggc  ggcgctcgcg  caatccgaaa  ggtccgcctg  caccaccgac  1020
162      gccaccagc  cggatgcgcg  cagtcagggg  ctgctccgac  cctccgactc  ccactctctg  1080
163      tcttcttca  cacagtgtcc  ccaggattcc  gccctctga  1119
165 <210> SEQ ID NO: 4
166 <211> LENGTH: 372
167 <212> TYPE: PRT
168 <213> ORGANISM: Homo sapiens
169 <400> SEQUENCE: 4
170      Met Leu Ala Asn Ser Ser Ser Thr Asn Ser Ser Val Leu Pro Cys Pro
171      1 5 10 15
172      Asp Tyr Arg Pro Thr His Arg Leu His Leu Val Val Tyr Ser Leu Val
173      20 25 30
174      Leu Ala Ala Gly Leu Pro Leu Asn Ala Leu Ala Leu Trp Val Phe Leu
175      35 40 45
176      Arg Ala Leu Arg Val His Ser Val Val Ser Val Tyr Met Cys Asn Leu
177      50 55 60
178      Ala Ala Ser Asp Leu Leu Phe Thr Leu Ser Leu Pro Val Arg Leu Ser
179      65 70 75 80
180      Tyr Tyr Ala Leu His His Trp Pro Phe Pro Asp Leu Leu Cys Gln Thr
181      85 90 95
182      Thr Gly Ala Ile Phe Gln Met Asn Met Tyr Gly Ser Cys Ile Phe Leu
183      100 105 110
184      Met Leu Ile Asn Val Asp Arg Tyr Ala Ala Ile Val His Pro Leu Arg
185      115 120 125
186      Leu Arg His Leu Arg Arg Pro Arg Val Ala Arg Leu Leu Cys Leu Gly
187      130 135 140
188      Val Trp Ala Leu Ile Leu Val Phe Ala Val Pro Ala Ala Arg Val His
189      145 150 155 160
190      Arg Pro Ser Arg Cys Arg Tyr Arg Asp Leu Glu Val Arg Leu Cys Phe
191      165 170 175
192      Glu Ser Phe Ser Asp Glu Leu Trp Lys Gly Arg Leu Leu Pro Leu Val
193      180 185 190
194      Leu Leu Ala Glu Ala Leu Gly Phe Leu Leu Pro Leu Ala Val Val
195      195 200 205
196      Tyr Ser Ser Gly Arg Val Phe Trp Thr Leu Ala Arg Pro Asp Ala Thr
197      210 215 220
198      Gln Ser Gln Arg Arg Arg Lys Thr Val Arg Leu Leu Ala Asn Leu

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/875,076

DATE: 12/19/2001

TIME: 12:59:06

Input Set : N:\Crf3\RULE60\09875076.RAW.txt

Output Set: N:\CRF3\12192001\I875076.raw

```

199          225          230          235          240
200 Val Ile Phe Leu Leu Cys Phe Val Pro Tyr Asn Ser Thr Leu Ala Val
201          245          250          255
202 Tyr Gly Leu Leu Arg Ser Lys Leu Val Ala Ala Ser Val Pro Ala Arg
203          260          265          270
204 Asp Arg Val Arg Gly Val Leu Met Val Met Val Leu Leu Ala Gly Ala
205          275          280          285
206 Asn Cys Val Leu Asp Pro Leu Val Tyr Tyr Phe Ser Ala Glu Gly Phe
207          290          295          300
208 Arg Asn Thr Leu Arg Gly Leu Gly Thr Pro His Arg Ala Arg Thr Ser
209          305          310          315          320
210 Ala Thr Asn Gly Thr Arg Ala Ala Leu Ala Gln Ser Glu Arg Ser Ala
211          325          330          335
212 Val Thr Thr Asp Ala Thr Arg Pro Asp Ala Ala Ser Gln Gly Leu Leu
213          340          345          350
214 Arg Pro Ser Asp Ser His Ser Leu Ser Ser Phe Thr Gln Cys Pro Gln
215          355          360          365
216 Asp Ser Ala Leu
217          370
219 <210> SEQ ID NO: 5
220 <211> LENGTH: 1107
221 <212> TYPE: DNA
222 <213> ORGANISM: Homo sapiens
223 <400> SEQUENCE: 5
224 atggccaact ccacagggct gaacgcctca gaagtcgcag gctcgttggg gttgatcctg 60
225 gcagctgtcg tggaggtggg ggcactgctg ggcaacggcg cgtcgtcgtg cgtgggtcgt 120
226 gcgcacgcgg gactgcgcga cgcgctctac ctggcgccac cgccgcgcgg gctgggcgcg 180
227 gcggcgcgct ccatcatgcc gctgggcctg ctggcgccac cgccgcgcgg gctgggcgcg 240
228 gtgcgccttg gccccgcgcc atgccgcgcc gctcgtcttc tctccgcgcg tctgtgcgcg 300
229 gcctgcacgc tcgggggtgg cgcacttggc ctggcacgct accgcctcat cgtgcacccg 360
230 ctgcggccag gctcgcggcc gccgcctgtg ctcgtgctca ccgcggtgtg ggccgcggcg 420
231 ggactgctgg gcgcgctctc cctgtcgggc ccgcgcgcgg caaccgcccc tgctcctgct 480
232 cgctgctcgg tcctggcttg gggcctcggg cccttcgggc cgctctgggc cctgtcggcc 540
233 ttgcgcctgc ccgcctctct gctgtcgggc gctacggcg gcattctcgt ggtggcgcgt 600
234 cgcgctgccc tgaggccccc acggccggcg cgcgggtccc gactccgctc ggactctctg 660
235 gatagccgcc ttccatctt gccgcgcgct cggcctcgcc tgcccggggg caaggcggcc 720
236 ctggccccag cgtggcgtt gggccaattt gcagcctgct ggtgcctta tggctgcgcg 780
237 tgctggcgcg ccgcagcgcg ggccgcggaa gccgaagcgg ctgtcacctg ggtcgcctac 840
238 tcgccttcgg cggctcacc ctctctgtac gggctgctgc agcgcgccgt gcgcttggca 900
239 ctgggcgcgc tctctgcgc tgcaactgct ggacctgtgc gggcctgcac tccgcaagcc 960
240 ttggcaccgc gggcactctt gcaatgcctc cagagacccc cagaggggcc tgccgtaggc 1020
241 cttcttgagg ctocagaaca gaccccgag ttggcaggag ggccggagccc cgcataccag 1080
242 gggccacctg agagttctct ctcttga
244 <210> SEQ ID NO: 6
245 <211> LENGTH: 368
246 <212> TYPE: PRT
247 <213> ORGANISM: Homo sapiens
248 <400> SEQUENCE: 6
249 Met Ala Asn Ser Thr Gly Leu Asn Ala Ser Glu Val Ala Gly Ser Leu

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/875,076

DATE: 12/19/2001

TIME: 12:59:07

Input Set : N:\Crf3\RULE60\09875076.RAW.txt

Output Set: N:\CRF3\12192001\I875076.raw